CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 85-127

NPDES PERMIT NO. CA0028533

WASTE DISCHARGE REQUIREMENTS FOR:

TIDEWATER SAND AND GRAVEL, INC.
SAN FRANCISCO COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region, (hereinafter called the Board) finds that:

1. Tidewater Sand and Gravel, Inc. (hereinafter called the discharger) by application dated April 22, 1985, has applied for reissuance of waste discharge requirements and a permit to discharge waste under the National Pollutant Discharge Elimination System (NPDES).

2. The discharger operates a 6 acre-foot retention pond that receives approximately 225 tons of sand per day which is hydraulically transported from barges to the retention pond. This activity results in the intermittent discharge of approximately 107,000 gallons per day of transport water during times of sand reclamation. Transport water is clarified in the retention pond and discharged by gravity through a 12-inch pipe to San Francisco Bay near the mouth of Islais Creek; both waters of the United States.

3. The discharge is presently governed by Waste Discharge Requirements, Order No. 80-33 which allows discharge into San Francisco Bay.

4. The Regional Board adopted a revised Water Quality Control Plan for the San Francisco Bay Region(Basin Plan) on July 21, 1982. The Basin Plan contains water quality objectives for Central San Francisco Bay and contiguous waters.

5. The beneficial uses of Central San Francisco Bay and contiguous water bodies are:

   a. Water contact recreation
   b. Non-contact water recreation
   c. Wildlife Habitat
   d. Preservation of Rare and Endangered Species
   e. Fish migration and spawning
   f. Industrial service and process supply
   g. Shellfish harvesting
   h. Navigation
   i. Commercial and sport fishing

6. The Basin Plan prohibits discharge of any wastewater which has particular characteristics of concern to benificial uses at any point at which the wastewater does not receive a minimum initial dilution of 10:1. The Board finds that the porposed discharge does not have particular characteristics of concern, provided the discharge limitations contained in this Order are met.

7. Effluent limitation, toxic effluent standards, established pursuant to Section 301, 304, and 307 of the Clean Water Act and amendments thereto are applicable to the discharge.

8. Effluent limitation guidelines requiring the application of best available technology economicaly achievable (BAT) for this point source category have not been promulgated by the U.S. Environmental Protection Agency. Effluent limitations of this Order are based on the Basin Plan, State Plans and policies, current plant performance, and best professional judgment. The limitations are considered to be those attainable by BAT, in the judgment of the Board.

9. The issuance of waste discharge requirements for this discharge is exempt from the provisions of Chapter 3 (commencing with Section 21000 of Division 13) of the Public Resources Code (CEQA) pursuant to Section 13389 of the California Water Code.

10. The Board has notified the discharger and interested agencies and persons of its intent to reissue waste discharge requirements for the discharge and has provided them with an opportunity for a public hearing and an opportunity to submit their written views and recommendations.

11. The Board, in a public meeting, heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED THAT TIDEWATER SAND AND GRAVEL, INC. in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder, and the provisions of the Clean Water Act and regulations and guidelines adopted thereunder, shall comply with the following:

A. DISCHARGE PROHIBITIONS

1. Bypass or overflow or untreated wastewater to waters of the State is prohibited.

2. The discharge of wastewater to the San Francisco Bay shall not cause bottom sediment deposits.

3. The erosion of sand into San Francisco Bay is prohibited.

B. EFFLUENT LIMITATIONS

1. Representitive samples of the waste discharge shall not contain constituents in excess of the following limits:

CONSTITUENT	UNITS	MONTHLY AVERAGE	MAXIMUM DAILY
Settleable Matter	ml/l/hr	0.2	1.0

2. The pH of the discharge shall not exceed 8.5 nor be less than 6.5 pH units.

3. In any representitive set of samples, the waste as discharged shall meet the following limit of quality:

TOXICITY: The survival of test fishes in 96 hour bioassays of the effluent as discharged shall be a median of 90% survival and a 90 percentile value of not less than 70% survival.

C. RECEIVING WATER LIMITATIONS

1. The discharge of waste shall not cause the following conditions to exist in waters of the State at any place:

   a. Floating, suspended, or deposited macroscopic particulate matter or foam;

   b. Bottom deposits or aquatic growths;

   c. Alteration of temperature, turbidity, or apparent color beyond present background levels;

   d. Visible, floating, suspended, or deposited oil or other products of petroleum origin;

   e. Toxic or other deleterious substances to be present in concentrations or quantities which will cause deleterious effects on aquatic biota, wildlife,or waterfowl, or which render any of these unfit for human consumption either at levels created in the receiving waters or as a result of biological concentration.

2. The discharge of waste shall not cause the following limits to be exceeded in waters of the State in any place within one foot of the water surface:

a. Disolved oxygen	5.0 mg/l minimum. Median of any three consecutive months shall not be less than 80% saturation. When natural factors cause lesser concentrations than those specified above, then this discharge shall not cause further reduction in the concentration of dissolved oxygen.
b. pH	Variation from natural ambient pH by more than 0.5 pH units.

3. The discharge shall not cause a violation of any applicable water quality standard for receiving waters adopted by the Board or the State Water Resources Control Board as required by the Clean Water Act and regulations adopted thereunder. If more stringent applicable water quality standards are promulgated or approved pursuant to Section 303 of the Clean Water Act, or amendments thereto, the Board will revise and modify this Order in accordance with such more stringent standards.

D. PROVISIONS

1. The requirements prescribed by this Order supersede the requirements prescribed by Order No. 80-33 adopted on August 5, 1980. Order No. 80-33 is hereby rescinded.

2. The discharger shall comply with all sections of this Order immediately upon adoption.

3. The discharger shall comply with the self-monitoring program as adopted by the Board and as may be amended by the Executive Officer.

4. The discharger shall comply with all items of the attached "Standard Provisions, Reporting Requirements and Definitions" dated April 1977, except items A.5, A.12, A.16, B.2, B.3, and B.5.

5. All applications, reports, or information submitted to the Regional Board shall be signed and certified pursuant to Environmental Protection Agency regulations (40 CFR 122.41K).

6. Pursuant to Environmental Protection Agency regulations (40 CFR 122.42[a]) the Discharger must notify the Regional Board as soon as it knows or has reason to believe (1) that they have begun or expect to begin, use or manufacture of a pollutant not reported in the permit application, or (2) a discharge of toxic pollutants not limited by this permit has occured, or will occur, in concentrations that exceed the specified limits.

7. This Order expires November 20, 1990. The discharger must file a report of waste discharge in accordance with Title 23, Chapter 3, Subchapter 9 of the California Water Code not later than 180 days in advance of such expiration date as application for issuance of new waste discharge requirements.

8. This Order shall serve as a National Pollutant Discharge Elimination System Permit pursuant to Section 402 of the Clean Water Act or amendments thereto, and shall become effective 10 days after date of its adoption provided the Regional Administrato, Environmental Protection Agency, has no objection. If the Regional Administrator objects to its issuance, the permit shall not become effective until such objection is withdrawn.

I, Roger B. James, Executive Officer do hereby certify the foregoing is a full, true and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region on November 20, 1985.

Roger B. James
Executive Officer

Attachments:
Standard Provisions and Reporting Requirements, April 1977
Self-Monitoring Program

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

SELF-MONITORING PROGRAM
FOR

TIDEWATER SAND AND GRAVEL, INC.
SAN FRANCISCO FACILITY

NPDES NO. CA 0028533

ORDER NO. 85-127

CONSISTS OF

PART A dated January 1978

AND

PART B

PART B

I. Description of Sampling Stations

A. Effluent- Hydraulic Dredging Operation

Station	Description
E001	The wastewater at the weir prior to discharge through the pipeline from the retention pond to San Francisco Bay.

B. Receiving Waters

Station	Description
C-1	At a point located within 20 feet and under the influence of the discharge from the retention pond pipeline into San Francisco Bay.
C-R	At a point located 100 feet east and out of the influence of the discharge from the retention pond pipeline into San Francisco Bay.

C. Land Observations at Sand Wastewater Retention Pond

Station	Description
L-1 thru L-'n'	Located along the perimeter levee of the land impoundment facility at equidistant intervals not to exceed 300 feet. (A sketch showing the location of these stations will accompany each report.)

II. Schedule of Sampling, Measurements, and Analysis

A. Stations E-001, C-1, and C-R: The schedule of sampling, measurements, and analysis shall be given as Table I.

B. Stations L-1 thru L-'n': The standard observations for land retention facilities, as outlined in section C.5.d of Part A, shall be made twice weekly during periods of discharge. These observations shall be reported in the Self-Monitoring Reports.

III. Modifications of Part A, dated January 1978

A. Exclusions: Section E.4.

B. Modifications: Section F.3 shall be modified as follows: "Written reports shall be submitted quarterly by thefifteenth day of the following month. The report shall be comprised of the following:"

I, Roger B. James, Executive Officer, hereby certify that the foregoing Self-Monitoring Program:

1. Has been developed in accordance with the procedures set forth in this Regional Board's Resolution No.73-16 in order to obtain data and document compliance with waste discharge requirements established in Regional Board Order No. 85-127.

2. Is effective on the date shown below.

3. May be reviewed at any time subsequent to the effective date upon written notice from the Executive Officer or request from the discharger, and revisions will be ordered by the Executive Officer.

Roger B. James
Executive Officer

Effective Date November 25, 1985

Attachment: Table I

TABLE I

SCHEDULE FOR SAMPLING, MEASUREMENTS, AND ANALYSIS

Sampling Station	E-001		C-1	C-R									
TYPE OF SAMPLE	G		O	O									
Flow Rate (mgd)													
BOD, 5-day, 20° C, or COD (mg/l & kg/day)													
Chlorine Residual & Dosage (mg/l & kg/day)													
Settleable Matter (ml/1-hr. & cu. ft./day)	D[1/]												
Total Suspended Matter (mg/l & kg/day)													
Oil & Grease (mg/l & kg/day)													
Coliform (Total or Fecal) (MPN/100 ml) per req't													
Fish Toxicity, 96-hr. TL_{50} % Survival in undiluted waste													
Ammonia Nitrogen (mg/l & kg/day)													
Nitrate Nitrogen (mg/l & kg/day)													
Nitrite Nitrogen (mg/l & kg/day)													
Total Organic Nitrogen (mg/l & kg/day)													
Total Phosphate (mg/l & kg/day)													
Turbidity (Jackson Turbidity Units)													
pH (units)	D[1/]												
Dissolved Oxygen (mg/l and % Saturation)													
Temperature (°C)													
Apparent Color (color units)													
Secchi Disc (inches)													
Sulfides (if DO < 5.0 mg/l) Total & Dissolved (mg/l)													
Arsenic (mg/l & kg/day)													
Cadmium (mg/l & kg/day)													
Chromium, Total (mg/l & kg/day)													
Copper (mg/l & kg/day)													
Cyanide (mg/l & kg/day)													
Silver (mg/l & kg/day													
Lead (mg/l & kg/day)													

TABLE I (continued)
SCHEDULE FOR SAMPLING, MEASUREMENTS, AND ANALYSIS

Sampling Station	E-001		C-1	C-R									
TYPE OF SAMPLE	G		O	O									
Mercury (mg/l & kg/day)													
Nickel (mg/l & kg/day)													
Zinc (mg/l & kg/day)													
PHENOLIC COMPOUNDS (mg/l & kg/day)													
All Applicable Standard Observations			D[2/]	D[2/]									
Bottom Sediment Analyses and Observations													
Total Identifiable Chlorinated Hydrocarbons (mg/l & kg/day)													

LEGEND FOR TABLE

TYPES OF SAMPLES

G = grab sample
C-24 = composite sample - 24-hour
C-X = composite sample - X hours (used when discharge does not continue for 24-hour period)
Cont = continuous sampling
DI = depth-integrated sample
BS = bottom sediment sample
O = observation

TYPES OF STATIONS

I = intake and/or water supply stations
A = treatment facility influent stations
E = waste effluent stations
C = receiving water stations
P = treatment facilities perimeter stations
L = basin and/or pond levee stations
B = bottom sediment stations
G = groundwater stations

FREQUENCY OF SAMPLING

E = each occurence
H = once each hour
D = once each day
W = once each week
M = once each month
Y = once each year

2/H = twice per hour
2/W = 2 days per week
5/W = 5 days per week
2/M = 2 days per month
2/Y = once in March and once in September
Q = quarterly, once in March, June, Sept. and December

2H = every 2 hours
2D = every 2 days
2W = every 2 weeks
3M = every 3 months
Cont = continuous

LEGEND FOR TABLE I (cont.)

1. Grab sample during the first and last hour of operation each day, daily when discharging.

2. Prior to and at the conclusion of each discharge period.